

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Takuya Tamatani et al.                      Art Unit :  
Serial No. :    Examiner :  
Filed : Herewith  
Title : CELL SURFACE MOLECULE MEDIATING CELL ADHESION AND SIGNAL  
TRANSMISSION

**MAIL STOP PATENT APPLICATION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Under 35 USC §120, this application relies on the earlier filing date of U.S. Application Serial Number 09/383,551, filed on August 26, 1999. Those references listed on the enclosed form PTO-1449 that were submitted to and/or cited by the Office in the prior application are not provided in this application.

Applicants also wish to bring to the Examiner's attention the following co-pending applications, each of which is assigned to the assignee of the present application and contains at least one overlapping inventor with the present application:

U.S. Application No. 09/383,551, filed August 26, 1999;  
U.S. Application No. 09/561,308, filed April 28, 2000;  
U.S. Application No. 10/107,828, filed March 26, 2002;  
U.S. Application No. 10/107,868, filed March 26, 2002;  
U.S. Application No. 10/107,907, filed March 26, 2002;  
U.S. Application No. 10/301,056, filed November 21, 2002;  
U.S. Application No. 10/729,880, filed December 5, 2003;  
U.S. Application No. 09/859,053, filed May 16, 2001;  
U.S. Application No. 10/625,105, filed July 22, 2003;  
U.S. Application No. 10/704,426, filed November 7, 2003;  
U.S. Application No. 10/704,030, filed November 7, 2003;  
U.S. Application No. 10/704,072, filed November 7, 2003;

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. ET931345567US

March 11, 2004  
Date of Deposit

Applicant : Takuya Tamatani et al.  
Serial No. :  
Filed : Herewith  
Page : 2 of 2

Attorney's Docket No.: 14539-004014 / JF-52US-D5-C4

U.S. Application No. 10/704,056, filed November 7, 2003;

U.S. Application No. 10/723,602, filed November 25, 2003; and

U.S. Application No. 10/721,404, filed November 25, 2003.

This statement is being filed with the application. Please apply any charges or credits to  
Deposit Account No. 06-1050, referencing Attorney Docket No. 14539-004014.

Respectfully submitted,

Date: March 11, 2004

Jack Brennan  
Jack Brennan  
Reg. No. 47,443

Fish & Richardson P.C.  
45 Rockefeller Plaza, Suite 2800  
New York, New York 10111  
Telephone: (212) 765-5070  
Facsimile: (212) 258-2291

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Takuya Tamatani et al.                      Art Unit :  
Serial No. :    Examiner :  
Filed : Herewith  
Title : CELL SURFACE MOLECULE MEDIATING CELL ADHESION AND SIGNAL  
TRANSMISSION

**Mail Stop Patent Application**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REMARKS

The application submitted herewith is a continuation application of U.S. application serial number 10/301,056, filed November 21, 2002.

The original claims of the parent application have been omitted. New claims 1-14 are presented for examination on pages 117-118 of the present specification. The new claims are supported by the specification of U.S. Patent Application No. 10/301,056 at, for example, page 13, line 26, to page 14, line 2; page 71, line 19, to page 72, line 2; page 75, lines 10-15; page 101, line 10, to page 103, line 15; and page 114, lines 17-19. No new matter has been added by these amendments.

Claims 1-14 appear to be directed to the same patentable invention as claim 24 of U.S. Patent Application No. 10/186,381 (Rottman and Kroczeck), filed June 26, 2002, as set forth in U.S. Patent Application Publication 2004/0001831. If the Patent Office were to declare an interference between the present application and U.S. Patent Application No. 10/186,381, Applicants submit that present claims 1-14 are fully supported by the disclosures of Japanese Patent Application No. 10-62217 (filed February 26, 1998, published February 2, 1999, as Publication No. 11-29599) and International Patent Application No. PCT/JP98/00837 (filed February 27, 1998, published September 3, 1998, as WO 98/38216). The present application claims priority to JP 10-62217 and PCT/JP98/00837, both of which were (together with corresponding European Patent Application No. 98905708.8, published on March 8, 2000, as EP

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. ET931345567US

March 11, 2004  
Date of Deposit

Applicant : Takuya Tamatani et al.  
Serial No. :  
Filed : Herewith  
Page : 2 of 2

Attorney's Docket No.: 14539-004014 / JF-52US-D5-C4

0984023) published more than one year prior to the June 26, 2002 filing date of U.S. Patent Application No. 10/186,381.

Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 14539-004014.

Respectfully submitted,

Date: March 11, 2004

Jack Brennan  
Jack Brennan  
Reg. No. 47,443

Fish & Richardson P.C.  
45 Rockefeller Plaza, Suite 2800  
New York, New York 10111  
Telephone: (212) 765-5070.  
Facsimile: (212) 258-2291

|  |  |  |                 |
|--|--|--|-----------------|
| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br><b>14539-004014</b> | Application No. |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br><b>Takuya Tamatani et al.</b>   |                 |
|  |  | Filing Date<br><b>Herewith</b>               | Group Art Unit  |

| U.S. Patent Documents |           |                 |                  |                     |       |          |                            |
|-----------------------|-----------|-----------------|------------------|---------------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee            | Class | Subclass | Filing Date If Appropriate |
|                       | AA        | 5,484,892       | 01/16/1996       | Tedder et al.       |       |          |                            |
|                       | AB        | 5,506,126       | 04/09/1996       | Seed et al.         |       |          |                            |
|                       | AC        | 5,521,288       | 05/28/1996       | Linsley et al.      |       |          |                            |
|                       | AD        | 5,770,197       | 06/23/1998       | Linsley et al.      |       |          |                            |
|                       | AE        | 5,914,112       | 06/22/1999       | Bednar et al.       |       |          |                            |
|                       | AF        | 6,075,181       | 06/13/2000       | Kucherlapati et al. |       |          |                            |
|                       | AG        | 20020164697     | 11/07/2002       | Coyle et al.        |       |          |                            |
|                       | AH        | 20020177191     | 11/28/2002       | Kroczek             |       |          |                            |
|                       | AI        | 20020182667     | 12/05/2002       | Kroczek             |       |          |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
|   | AJ        | WO 95/33770     | 12/14/1995       | WIPO                     |       |          |             |    |
|   | AK        | WO 97/26912     | 07/31/1997       | WIPO                     |       |          |             |    |
|   | AL        | WO 98/11909     | 03/26/1998       | WIPO                     |       |          |             |    |
|   | AM        | WO 98/19706     | 05/14/1998       | WIPO                     |       |          |             |    |
|   | AN        | WO 98/37415     | 08/27/1998       | WIPO                     |       |          |             |    |
|   | AO        | WO 98/38216     | 09/03/1998       | WIPO                     |       |          |             |    |
|   | AP        | WO 98/45331     | 10/15/1998       | WIPO                     |       |          |             |    |
|   | AQ        | WO 00/19988     | 04/13/2000       | WIPO                     |       |          |             |    |
|   | AR        | WO 00/46240     | 08/10/2000       | WIPO                     |       |          |             |    |
|   | AS        | WO 00/67788     | 11/16/2000       | WIPO                     |       |          |             |    |
|   | AT        | WO 01/08700     | 02/08/2001       | WIPO                     |       |          |             |    |
|   | AU        | WO 01/12658     | 02/22/2001       | WIPO                     |       |          |             |    |
|   | AV        | WO 01/15732     | 03/08/2001       | WIPO                     |       |          |             |    |
|   | AW        | WO 01/18022     | 03/15/2001       | WIPO                     |       |          |             |    |
|   | AX        | WO 01/21796     | 03/29/2001       | WIPO                     |       |          |             |    |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

|  |  |  |                 |
|--|--|--|-----------------|
| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br><b>14539-004014</b> | Application No. |
|  | Applicant<br><b>Takuya Tamatani et al.</b>                 |  |                 |
|  | Filing Date<br><b>Herewith</b>                             | Group Art Unit                               |                 |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |    |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|   |           |                 |                  |                          |       |          | Yes         | No |
|   | AY        | WO 01/32675     | 05/10/2001       | WIPO                     |       |          |             |    |
|   | AZ        | WO 01/64704     | 09/07/2001       | WIPO                     |       |          |             |    |
|   | AAA       | WO 01/87981     | 11/22/2001       | WIPO                     |       |          |             |    |
|   | ABB       | WO 02/44364     | 06/06/2002       | WIPO                     |       |          |             |    |
|   | ACC       | WO 02/70010     | 09/12/2002       | WIPO                     |       |          |             |    |
|   | ADD       | WO 02/76504     | 10/03/2002       | WIPO                     |       |          |             |    |
|   | AEE       | AU 13320/99     | 04/01/1999       | Australia                |       |          |             |    |
|   | AFF       | DE 19821060     | 04/15/1999       | Germany                  |       |          |             |    |
|   | AGG       | EP 0 984 023    | 03/08/2000       | EPO                      |       |          |             |    |
|   | AHH       | EP 1 125 585    | 08/22/2001       | EPO                      |       |          |             |    |
|   | AII       | JP 11-228442    | 08/24/1999       | Japan                    |       |          | Abstract    |    |
|   | AJJ       | JP 2000-154151  | 06/06/2000       | Japan                    |       |          | Abstract    |    |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |   |
|---|-----------|---|
| Examiner Initial  | Desig. ID | Document  |
|   | AKK       | Aicher et al., "Characterization of Human Inducible Costimulator Ligand Expression and Function," J. IMMUNOL., 164(9):4689-4696 (2000)  |
|   | ALL       | Bajorath "A molecular model of inducible costimulator protein and three-dimensional analysis of its relation to the CD28 family of T cell-specific costimulatory receptors," J. MOL. MODEL. 5:169-176 (1999)    |
|   | AMM       | Beier et al., "Induction, binding specificity and function of human ICOS," EUR. J. IMMUNOL., 30(12):3707-3717 (2000)  |
|   | ANN       | Bensimon et al., "Human lupus anti-DNA autoantibodies undergo essentially primary V kappa gene rearrangements," EMBO J. 13(13):2951-62 (1994)   |
|   | AOO       | Brodie et al., "LICOS, a primordial costimulatory ligand?" CURRENT BIOLOGY, 10(6):333-336 (2000)  |
|   | APP       | Buonfiglio et al., "Characterization of a novel human surface molecule selectively expressed by mature thymocytes, activated T cells and subsets of T cell lymphomas," EUR. J. IMMUNOL., 29(9):2863-2874 (1999) |
|   | AQQ       | Buonfiglio et al. "The T cell activation molecule H4 and the CD28-like molecule ICOS are identical," EUR. J. IMMUNOL., 30:3463-3467 (2000)  |
|   | ARR       | Cameron "Recent advances in transgenic technology" MOLECULAR BIOTECHNOLOGY 7:253-65 (1997)  |
|   | ASS       | Chambers, "The expanding world of co-stimulation: the two-signal model revisited," TRENDS IN IMMUNOLOGY, 22(4):217-223 (2001)   |
|   | ATT       | Cocks et al. "A novel receptor involved in T-cell activation," NATURE, 376:260-263 (July 20, 1995)  |
|   | AUU       | Coyle et al., "The CD28-Related Molecule ICOS Is Required for Effective T Cell-Dependent Immune Responses," IMMUNITY, 13:95-105, (2000)   |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

|  |  |                                       |                 |
|--|--|---------------------------------------|-----------------|
| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>14539-004014 | Application No. |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Takuya Tamatani et al.   |                 |
|  |  | Filing Date<br>Herewith               | Group Art Unit  |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial | Desig. ID | Document   |
|------------------|-----------|--|
|                  | AVV       | Dong et al., "Cutting Edge: Critical Role of Inducible Costimulator in Germinal Center Reactions," J. IMMUNOL., 166(6):3659-3662 (2001)  |
|                  | AWW       | Dong, "ICOS co-stimulatory receptor is essential for T-cell activation and function," NATURE 409(6816):97-101 (2001)   |
|                  | AXX       | Eljaschewitsch et al., "Identification of a novel activation antigen on human CD4+ T cells," IMMUNOBIOLOGY, 194(1-3):27 (1995)   |
|                  | AYY       | Goding, "Monoclonal Antibodies: Principles and Practice," 2 <sup>nd</sup> Edition, Academic Press, Orlando, Florida, Chapter 8, pages 281-293 (1986)   |
|                  | AZZ       | Goni et al., "Structural and idiotype characterization of the L chains of human IgM autoantibodies with different specificities," J. Immunol. 142(9):3158-63 (1989)  |
|                  | AAAA      | Gonzalo et al., "The Related Molecules CD28 and Inducible Costimulator Deliver Both Unique and Complementary Signals Required for Optimal T Cell Activation," J. IMMUNOL., 166(1):1-5 (2001)   |
|                  | ABBB      | Guo et al., "Stimulatory Effects of B7-Related Protein-1 on Cellular and Humoral Immune Responses in Mice," J. IMMUNOL., 166(9):5578-5584 (2001)   |
|                  | ACCC      | Harlow and Lane, "Antibodies: A Laboratory Manual," Cold Spring Harbor Laboratory, page 285 (1988)   |
|                  | ADDD      | Hanzawa et al., "Characteristics of a TTH1 antibody which blocks an unknown adhesion phenomenon," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 24, Abstract No. W17-13 (1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]   |
|                  | AEEE      | Heyeck et al., "Developmental regulation of a murine T-cell-specific tyrosine kinase gene, Tsk," PROC. NATL. ACAD. SCI. USA, Vol. 90, pp. 669-673 (1993)   |
|                  | AFFF      | Houdebine "Production of pharmaceutical proteins from transgenic animals" J. BIOTECHNOL. 34:269-87 (1994)  |
|                  | AGGG      | Hutloff et al., "Identification and initial characterization of a novel T cell-specific cell surface activation antigen," IMMUNOBIOLOGY, 197(2-4):172 (1997)   |
|                  | AHHH      | Hutloff et al. "ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28," NATURE 397:263-266 (1999)  |
|                  | AIII      | Iiyama et al., "The role of inducible co-stimulator (ICOS)/B7-related protein-1 (B7RP-1) interaction in the functional development of Peyer's patches," IMMUNOLOGY LETTERS, In Press, Uncorrected Proof available online April 11, 2003, <a href="http://www.sciencedirect.com/science/journal/01652478">http://www.sciencedirect.com/science/journal/01652478</a> |
|                  | AJJJ      | Ishikawa et al., "Prediction of the Coding Sequences of Unidentified Human Genes. X. The Complete Sequences of 100 New cDNA Clones from Brain Which Can Code for Large Proteins <i>in vitro</i> ," DNA RESEARCH, 5:169-176 (1998)  |
|                  | AKKK      | Kappel et al. "Regulating gene expression in transgenic animals" CURRENT OPINION IN BIOTECHNOLOGY 3:548-53 (1992)  |
|                  | ALLL      | Kopf et al., "Inducible Costimulator Protein (ICOS) Controls T Helper Cell Subset Polarization after Virus and Parasite Infection," J. EXP. MED., 192(1):53-61 (2000)  |
|                  | AMMM      | Kuchroo et al. "B7-1 and B7-2 costimulatory molecules activate differentially the Th1/Th2 developmental pathways: Application to autoimmune disease therapy," CELL, 80:707-718 (March 10, 1995)  |
|                  | ANNN      | Ling et al., "Identification of GL50, a Novel B7-Like Protein That Functionally Binds to ICOS Receptor," J. IMMUNOL., 164(4):1653-1657 (2000)  |
|                  | AOOO      | Mages et al. "Molecular cloning and characterization of murine ICOS and identification of B7h as ICOS ligand," EUR. J. IMMUNOL. 30:1040-1047 (2000)  |
|                  | APPP      | Marguet et al. "cDNA Cloning for Mouse Thymocyte-activating Molecule," THE JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 267, No. 4, pp. 2200-2208 (1992)  |
|                  | AQQQ      | McAdam, "ICOS is critical for CD40-mediated antibody class switching," NATURE 409(6816):102-105 (2001)   |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

|  |  |                                       |                 |
|--|--|---------------------------------------|-----------------|
| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>14539-004014 | Application No. |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.98(b)) |  | Applicant<br>Takuya Tamatani et al.   |                 |
|  |  | Filing Date<br>Herewith               | Group Art Unit  |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |   |
|---|-----------|---|
| Examiner Initial  | Desig. ID | Document  |
|   | ARRR      | McAdam, "Mouse Inducible Costimulatory Molecule (ICOS) Expression Is Enhanced by CD28 Costimulation and Regulates Differentiation of CD4 <sup>+</sup> T Cells," J. IMMUNOL., 165(9):5035-5040 (2000)          |
|   | ASSS      | McAdam et al., "Mouse inducible costimulatory (ICOS) molecule expression is increased by CD28 costimulation and regulates development of Th2 cells," FASEB JOURNAL, 14(6):A1169 (2000)                        |
|   | ATTT      | Mueller, "T cells: A proliferation of costimulatory molecules," CURR. BIOL. 10(6):R227-R230 (2000)  |
|   | AUUU      | Mullins et al. "Expression of the DBA/2J Ren-2 gene in the adrenal gland of transgenic mice" EMBO J., 8:4065-72 (1989)  |
|   | AVVV      | Mullins et al. "Fulminant hypertension in transgenic rats harbouring the mouse Ren-2 gene" NATURE, 344:541-44 (1990)  |
|   | AWWW      | Mullins et al. "Transgenesis in nonmurine species" Hypertension 22:630-33 (1993)  |
|   | AXXX      | Niemann "Transgenic farm animals get off the ground" TRANSGENIC RESEARCH, 7:73-75 (1998)  |
|   | AYYY      | Nojima et al. "The 4F9 antigen is a member of the tetra spans transmembrane protein family and functions as an accessory molecule in T cell activation and adhesion," CELLULAR IMMUNOLOGY, 152:249-260 (1993) |
|   | AZZZ      | Nurieva et al., "Inducible costimulator is essential for collagen-induced arthritis," J. CLIN. INVEST. 111(5):701-06 (2003)   |
|   | AAAAA     | Overbeek "Factors affecting transgenic animal production," Transgenic Animal Technology, A Laboratory Handbook 96-98 (1994)   |
|   | ABBBB     | Özkaynak et al., "Importance of ICOS-B7RP-1 costimulation in acute and chronic allograft rejection," NATURE IMMUNOLOGY 2(7):591-596 (2001)  |
|   | ACCCC     | Pech et al., "A large section of the gene locus encoding human immunoglobulin variable regions of the kappa type is duplicated," J. Mol Biol. 183(3):291-9 (1985)   |
|   | ADDDD     | Poster, Kyoto International Conference Hall, Takaragaike Sakyo-ku, Kyoto, JAPAN (November 30, 1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]  |
|   | AEEEE     | Redoglia et al. "Characterization of H4: a mouse T lymphocyte activation molecule functionally associated with the CD3/T cell receptor," EUR. J. IMMUNOL., 26:2781-2789 (1996)                                |
|   | AFFFF     | Riley et al., "ICOS Costimulation Requires IL-2 and Can Be Presented by CTLA-4 Engagement," J. IMMUNOL., 166(8):4943-4948 (2001)  |
|   | AGGGG     | Robert et al. "Antibody Cross-Linking of the Thymocyte-Specific Cell Surface Molecule CTX Causes Abnormal Mitosis and Multinucleation of Tumor Cells," EXPERIMENTAL CELL RESEARCH, 235:227-237 (1997)         |
|   | AHHHH     | Sakamoto et al., "AILIM/ICOS: its expression and functional analysis with monoclonal antibodies," HYBRIDOMA AND HYBRIDOMICS, 20(5):293-303 (2001)   |
|   | AIIII     | Sato et al. (2000) "Up-regulation of inducible co-stimulator (ICOS) expression and its regulation of cytokine production in inflammatory bowel disease," GASTROENTEROLOGY, 118(4):A662                        |
|   | AJJJJ     | Sharpe "Analysis of lymphocyte costimulation <i>in vivo</i> using transgenic and 'knockout' mice," CURRENT OPINION IN IMMUNOLOGY, 7:389-395 (1995)  |
|   | AKKKK     | Sigmund "Are studies in genetically altered mice out of control?" ARTERIOSCLER. THROMB. VASC. BIOL., 20:1425-29 (2000)  |
|   | ALLLL     | Swallow et al., "B7h, a Novel Costimulatory Homolog of B7.1 and B7.2, Is Induced by TNF $\alpha$ ," IMMUNITY, 11:423-432, (1999)  |
|   | AMMMM     | Tafuri et al., "ICOS is essential for effective T-helper-cell responses," NATURE 409(6816):105-109 (2001)   |
|   | ANNNN     | Tai et al. "A role for CD9 molecules in T cell activation," J. EXP. MED., 184:753-758 (August 1996)   |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |



|  |  |                                       |                 |
|--|--|---------------------------------------|-----------------|
| Substitute Form PTO-1449<br>(Modified)<br><br><b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br><br>(37 CFR §1.98(b)) | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>14539-004014 | Application No. |
|  |  | Applicant<br>Takuya Tamatani et al.   |                 |
|  |  | Filing Date<br>Herewith               | Group Art Unit  |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |  |
|---|-----------|--|
| Examiner Initial  | Desig. ID | Document   |
|   | AOOOO     | Tamatani et al., "Characteristics of an antibody which induces an ICAM-1-LFA-1-independent adhesion pathway," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 23, Abstract No. H-160 (1993) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]                        |
|   | APPPP     | Tamatani et al. "AILIM/ICOS: a novel lymphocyte adhesion molecule," INTERNATIONAL IMMUNOLOGY, 12(1):51-55 (2000)   |
|   | AQQQQ     | Tezuka et al., "Genetic cloning of a lymphocyte surface signal transduction molecule which induces an unknown adhesion phenomenon," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 24, Abstract No. W17-14 (1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION] |
|   | ARRRR     | Tezuka et al. "Identification and characterization of rat AILIM/ICOS, a novel T-cell costimulatory molecule, related to the CD28/CTLA4 family," BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 276:335-345 (2000)  |
|   | ASSSS     | Tomlinson et al., "The repertoire of human germline VH sequences reveals about fifty groups of VH segments with different hypervariable loops," J. Mol. Biol. 227(3):776-98 (1992)   |
|   | ATTTT     | Wall "Transgenic livestock: progress and prospects for the future" THERIOGENOLOGY 45:57-68 (1996)  |
|   | AUUUU     | Wang et al., "Costimulation of T cells by B7-H2, a B7-like molecule that binds ICOS," BLOOD, 96(8):2808-2813 (2000)  |
|   | AVVVV     | Yoshinaga et al., "T-cell co-stimulation through B7RP-1 and ICOS," NATURE, 402:827-832 (1999)  |
|   | AWWWW     | Yoshinaga et al., "Characterization of a new human B7-related protein: B7RP-1 is the ligand to the co-stimulatory protein ICOS," INTERNATIONAL IMMUNOLOGY, 12(10):1439-1441 (2000)   |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |